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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,526	02/26/2004	George Tachas	23546-08072	9932
35807	7590	10/03/2005		
FENWICK & WEST LLP 801 CALIFORNIA STREET MOUNTAIN VIEW, CA 94014			EXAMINER EPPS FORD, JANET L	
			ART UNIT	PAPER NUMBER
			1633	

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/789,526

Applicant(s)

TACHAS ET AL.

Examiner

Janet L. Epps-Ford

Art Unit

1633

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2004.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☐ Claim(s) _____ is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☒ Claim(s) 1-45 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-23, 31, drawn to compounds 8 to 80 nucleobases in length targeted to a nucleic acid encoding growth hormone receptor (GHR) nucleic acid, classified in class 536, subclass 24.5. This group is subject to a further restriction (see below).
 - II. Claims 24, 32-36, 43-45 drawn to a method for inhibiting the expression of GHR, and method of treating an animal by inhibiting the expression of GHR, wherein said methods comprise delivering or administering a compound of claim 1, or making a medicament for use in treating various disease conditions associated with growth hormone receptor, classified in class 514, subclass 44.
 - III. Claims 25-29, 37-42, drawn to a method of screening for a modulator of GHR, classified in class 435, subclass 6.
 - IV. Claims 30, drawn to a diagnostic method for identifying a disease state comprising identifying the presence of GHR in a sample, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

2. Searching the inventions of Groups I and II-IV together would impose serious search burden. The inventions of Groups I and II-IV have a separate status in the art as shown by their different classifications. Moreover, in the instant case, the search for the

Art Unit: 1633

compounds 8 to 80 nucleobases in length and the methods of inhibiting, screening for modulators, and diagnostic methods using the compounds of the invention are not coextensive. The search of the methods set forth in inventions II-IV would require a text search in addition to a sequence search for the compounds recited in invention I. Prior art that discloses the compounds of invention I would not necessarily be applicable to the methods of using recited in inventions II-IV.

3. Inventions I and II-IV are related as product and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the compounds of invention I, which specifically hybridize to nucleic acid encoding GHR, and are antisense to mRNA encoding GHR, can be used in an amplification process to produce GHR cDNA. The amplification process referred to here, can be classified in 435/91.2, this process is distinct from the method of inhibiting (514/44) of invention II, the method of screening for a modulator (435/6) of invention III, and the diagnostic method for identifying a diseased state (536/24.3) of invention IV, since the amplification process comprises distinct method steps and recites a distinct objective. Therefore, invention I is distinct from inventions II-IV, since the compounds of invention I can be used in a materially distinct method than those recited in inventions II-IV.

4. Inventions II-IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of

Art Unit: 1633

operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). The instant specification does not disclose that these methods would be used together. In the instant case the different inventions of II-IV are unrelated to the extent that they are drawn to materially distinct methods, which require distinct materials, comprise distinct method steps, different objectives, and produce distinct effects or results that require separate interpretation. For example, the method of invention group II would require the search of methods in the prior art that comprise inhibiting the expression of specifically GHR comprising the use of nucleic acid based inhibitors both *in vitro* and *in vivo*. This search would also require an assessment of the prior art to determine whether or not the prior art enables one of skill in the art how to use the claimed methods for treatment purposes. The search for invention group II is not co-extensive in scope with regards to the methods of invention groups III-IV since the search of group II does not require a search for the identification of modulators of GHR, nor does it require a search for a diagnostic method for identifying a disease state by identifying the expression of GHR in a sample. Although the search for modulators of GHR expression comprises the identification of inhibitors, the search also comprises the identification of activators of GHR expression. The search of invention group III does not require an assessment of whether the identified modulator functions *in vivo* for treatment purposes of conditions associated with GHR expression. Additionally, the search of invention group IV requires only a diagnostic method to identify a diseased state by identifying the presence of GHR expression in a sample, this method does not require inhibiting the expression of GHR in cells or tissues for treatment purposes (invention group II), nor

Art Unit: 1633

does it require identifying modulators (inhibitors and activators) of GHR expression (invention group IV). Since the search for invention groups II-IV are not entirely coextensive, requiring a separate text search in addition to a sequence search, it would be burdensome to search the inventions of Groups II-IV together.

Group I is further restricted as follows:

5. Pursuant to 35 U.S.C. 121 and 37 C.F.R. 1.141, the antisense sequences listed in claims 14-15 are subject to restriction. The Commissioner has partially waived the requirements of 37 C.F.R. 1.141 and will permit a reasonable number of such nucleotide sequences to be claimed in a single application. Under this policy, up to 10 of independent and distinct nucleotide sequences will be examined in a single application. (see MPEP 803.04 and 2434).

6. If the members of the Markush group are sufficiently few in number or so closely related that a search and examination of the entire claim can be made without serious burden, the examiner must examine all the members of the Markush group in the claim on the merits, even though they are directed to independent and distinct inventions. In such a case, the examiner will not follow the procedure described below and will not require restriction. Since the decisions in *In re Weber*, 580 F.2d 455, 198 USPQ 328 (CCPA 1978) and *In re Haas*, 580 F.2d 461, 198 USPQ 334 (CCPA 1978), it is improper for the Office to refuse to examine that which applicants regard as their invention, unless the subject matter in a claim lacks unity of invention. *In re Harnish*, 631 F.2d 716, 206 USPQ 300 (CCPA 1980); and *Ex parte Hozumi*, 3 USPQ2d 1059

Art Unit: 1633

(Bd. Pat. App. & Int. 1984). Broadly, unity of invention exists where compounds included within a Markush group (1) share a common utility, and (2) share a substantial structural feature disclosed as being essential to that utility.

7. Claims 14-15 specifically claim antisense by SEQ ID NOS, where each antisense is targeted to and modulates the expression of a specified nucleic acid target. Although the antisense sequences claimed each target and modulate expression of the same target, the instant antisense sequences are considered to be unrelated, since each antisense sequence claimed is structurally and functionally independent and distinct for the following reasons: each antisense sequence has a unique nucleotide sequence, each antisense sequence targets a different and specific region of the targeted nucleic acid, and each antisense, upon binding to its target, functionally modulates (increases or decreases) the expression of the gene and to varying degree. Furthermore, a search of more than one (1) of the antisense sequences claimed in the claims presents an undue burden on the Patent and Trademark Office due to the complex nature of the search and corresponding examination of more than one (1) of the claimed antisense sequences. In view of the foregoing, one (1) antisense sequence is considered to be a reasonable number of sequences for examination. Accordingly, applicants are required to elect one (1) antisense sequence.

8. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 1633

9. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

10. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

11. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

12. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejections are governed by 37 CFR 1.116; amendments submitted after allowances are governed by 37 CFR 1.312.

13. In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process

Art Unit: 1633

claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai*, *In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

14. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

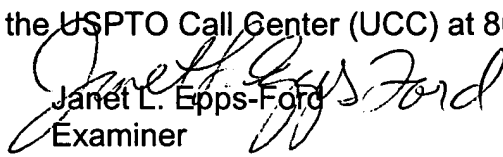
Art Unit: 1633

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Epps-Ford whose telephone number is 571-272-0757. The examiner can normally be reached on M-F, 9:30 AM through 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave T. Nguyen can be reached on 517-272-0731. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Janet L. Epps-Ford
Examiner
Art Unit 1633

JLE